



25Z6, 25Z6-GT/G

HIGH-VACUUM RECTIFIER-DOUBLER

25Z6
25Z6-GT/G

Heater Voltage	Coated Unipotential Cathodes		a-c or d-c volts	
Current	25			amp.
	0.3			
	25Z6		25Z6-GT/G	
Maximum Overall Length	3-1/4"		3-5/16"	
Maximum Seated Height	2-11/16"		2-3/4"	
Maximum Diameter	1-5/16"		1-5/16"	
Bulb	Metal Shell, MT-8		T-9	
Base	{ Small Wafer		{ Intermed. Sh.	
	{ Octal 7-Pin		{ Octal 7-Pin	
Basing Designation	70		G-70	
Pin 1 { 25Z6, Shell			Pin 4 - Cathode #2	
Pin 2 { 25Z6-GT/G, No Con.			Pin 5 - Plate #1	
Pin 3 - Heater			Pin 7 - Heater	
Pin 3 - Plate #2			Pin 8 - Cathode #1	
Mounting Position			Any	

BOTTOM VIEW

Maximum Ratings Are Design-Center Values

RECTIFIER OR DOUBLER	
Peak Inverse Plate Voltage	700 max. volts
Peak Plate Current per Plate	450 max. ma.
D-C Output Current per Plate	75 max. ma.
D-C Heater-Cathode Potential	350 max. volts

Typical Operation as Half-Wave Rectifier
with Condenser-Input Filter:*

Unless otherwise indicated, values are for both plates in parallel.

A-C Plate Supply Voltage per Plate (RMS)	117	150	235	volts
Filter Input Condenser	16	16	16	μf
Min. Total Effect. Plate-Supply Imped. per Plate	15	40	100	ohms
D-C Output Current per Plate	75	75	75	ma.
D-C Voltage (At input to filter):*				
At half-load current (75 ma.)	115	-	255	volts
At full-load current (150 ma.)	80	-	200	volts
Difference (Voltage Regulation)	35	-	55	volts
Percentage Regulation	30	-	22	%

Typical Operation as Voltage Doubler:

	Half-Wave	Full-Wave	
A-C-Plate Supply Voltage per Plate (RMS)	117	117	volts
Filter Input Condenser (Each)	16	16	μf
Min. Total Effect. Plate-Supply Imped. per Plate	30	15	ohms
D-C Output Current	75	75	ma.
D-C Voltage (At input to filter):*			
At half-load current (37.5 ma.)	-	250	volts
At full-load current (75 ma.)	-	205	volts
Difference (Voltage Regulation)	-	45	volts
Percentage Regulation	-	18	%

* In half-wave rectifier service, the two units may be used separately or in parallel.
* Approximate values.

Circuits and Plate Characteristic Curve for the 25Z6 and 25Z6-GT/G are the same as for Type 25Z5.

Mar. 20, 1943

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

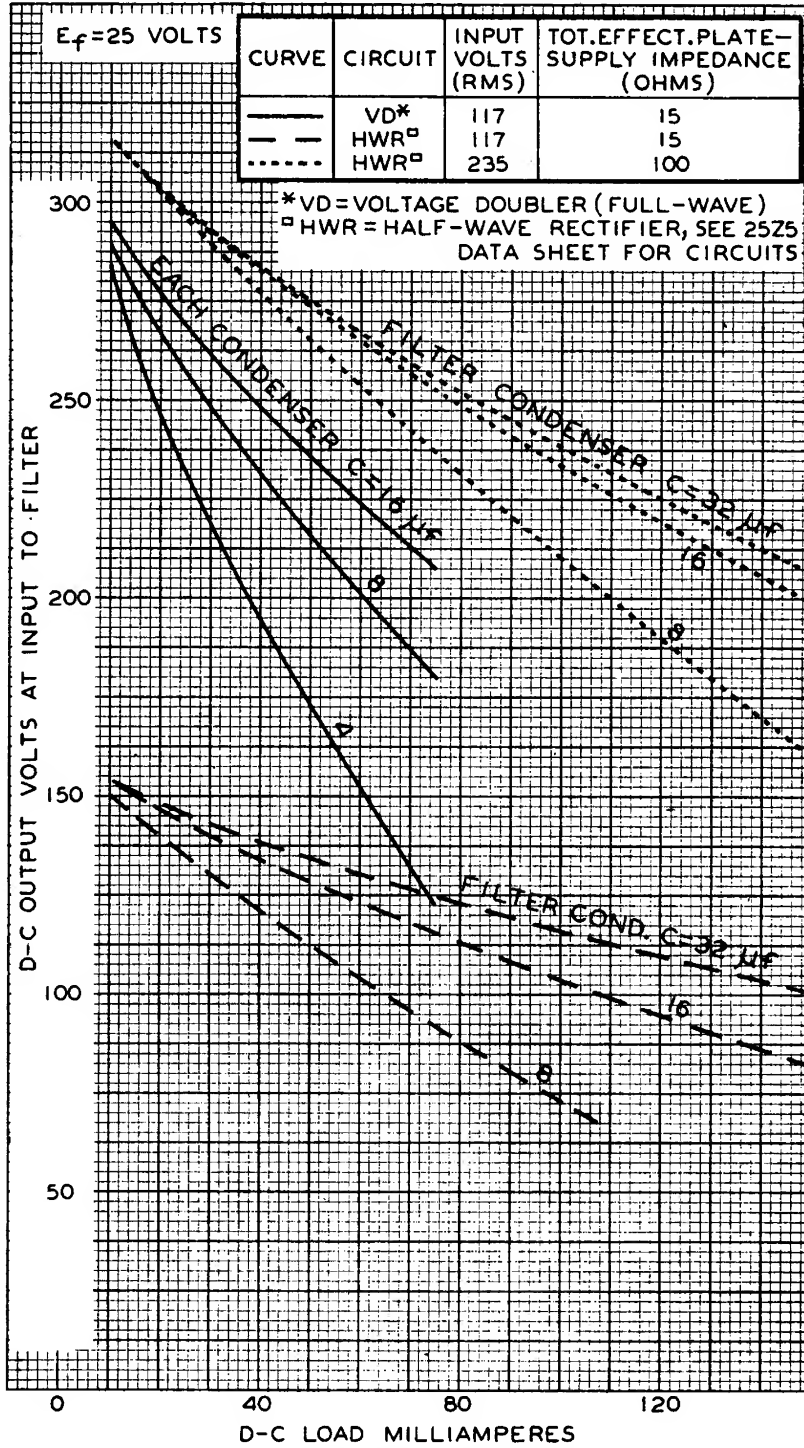
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OPERATION CHARACTERISTICS



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